

Gotham Architectural Downlighting  
LED Downlights

## 4" Evo® Square Downlight

Solid-State Lighting



### FEATURES

#### OPTICAL SYSTEM

- Self-flanged semi-specular, matte-diffuse finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 55° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine

#### MECHANICAL SYSTEM

- 16-gauge galvanized steel construction; maximum 1-1/4" ceiling thickness
- Telescopic mounting bars maximum of 24" and minimum of 15", included, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out ) 12AWG rated for 90°C
- Light engine and driver accessible through aperture
- Patented adjustable aperture allows 1/4" adjustments in all directions and up to 5° of rotation allowing post-installation adjustments to ensure trim-to-trim alignment.

#### ELECTRICAL SYSTEM

- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 50,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

#### LISTINGS

- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling

#### WARRANTY

- 5-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Note: Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C.

### ORDERING INFORMATION

#### EXAMPLE: EVO SQ 35/10 4AR MWD LSS MVOLT EZ1

Series	Type	Color temperature	Nominal lumen values	Aperture/Trim color	Finish	Voltage
EVO	SQ	27/ 2700 K	07 750 lumens	4AR Clear	LSS Semi-specular	MVOLT
		30/ 3000 K	10 1000 lumens	4PR Pewter	LD Matte-diffuse	120
		35/ 3500 K	15 1500 lumens	4WTR Wheat		277
		40/ 4000 K	20 2000 lumens	4WR <sup>1</sup> White		347 <sup>2</sup>
			25 2500 lumens	4BR <sup>1</sup> Black		
			30 3000 lumens			

Driver <sup>3</sup>		Options			
<b>EZ1</b>	eldoLED ECOdrive 0-10V dimming driver. Minimum dimming range level 1%	<b>SF<sup>6</sup></b>	Single fuse	<b>BGTD<sup>6</sup></b>	Bodine generator transfer device
<b>EZB</b>	eldoLED SOLOdrive 0-10V dimming driver. Minimum dimming level <1%.	<b>TRW<sup>7</sup></b>	White painted flange	<b>CP<sup>6</sup></b>	Chicago plenum
<b>EDAB</b>	eldoLED SOLOdrive DALI dimming driver. Minimum dimming level <1%.	<b>TRBL<sup>8</sup></b>	Black painted flange	<b>CRI90</b>	High CRI (90+)
<b>EDXB</b>	eldoLED POWERdrive DMX with RDM (remote device management). Minimum dimming level <1%. Includes termination resistor.	<b>EL<sup>9</sup></b>	Emergency battery pack with integral test switch	<b>RRL_</b>	RELOC <sup>®</sup> -ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to <a href="#">RRL</a> for complete nomenclature.
<b>EXA1</b>	XPoint Wireless, eldoLED ECOdrive 1% dimming, 0-10V. Refer to XPoint tech sheet.	<b>ELR<sup>9</sup></b>	Emergency battery pack with remote test switch		
<b>EXAB</b>	XPoint Wireless, eldoLED SOLOdrive <1% dimming, 0-10V. Refer to XPoint tech sheet.	<b>NPS80EZ</b>	nLight <sup>®</sup> dimming pack controls 0-10V eldoLED drivers.		
<b>ECOS2<sup>4,5</sup></b>	Lutron <sup>®</sup> Hi-lume <sup>®</sup> 2-wire forward-phase dimming driver. Minimum dimming level 1%	<b>NPS80EZER<sup>10</sup></b>	nLight <sup>®</sup> dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit.		
<b>ECOS3<sup>4</sup></b>	Lutron <sup>®</sup> Hi-lume <sup>®</sup> 3-wire or EcoSystem <sup>®</sup> dimming driver. Minimum dimming level 1%	<b>WRS<sup>11</sup></b>	FIDO wireless monitoring and reporting system		

ACCESSORIES order as separate catalog numbers (shipped separately)

**ISD BC** 0-10V wallbox dimmer. Refer to [ISD-BC](#).

4" EVO SQUARE

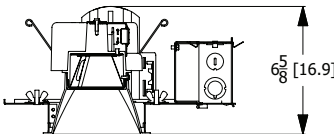
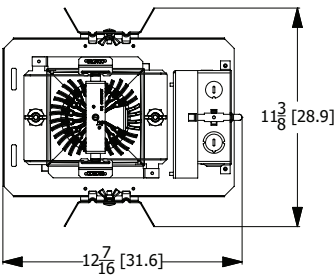
Downlight

Solid-State Lighting



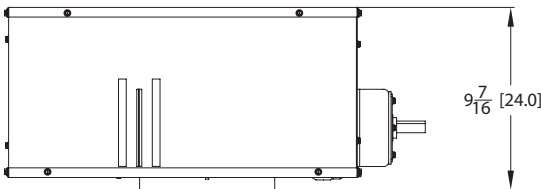
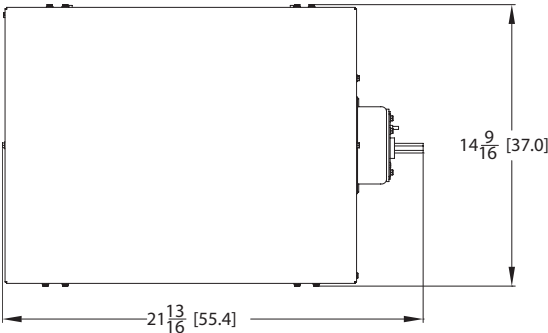
DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.



Aperture: 4-1/2 [11.4]  
Ceiling Opening: 5-1/8 [13]  
Overlap Trim: 5-1/2 [14]

DIMENSIONS FOR CHICAGO PLENUM



ELECTRICAL

WATTAGE CONSUMPTION MATRIX			
LUMENS	LM ACTUAL	WATTAGE	LUMENS per WATT
750	849	10.3	82.4
1000	1,189	12.8	92.9
1500	1,509	17.3	87.2
2000	2,109	23.5	89.6
2500	2,576	28.9	89.1
3000	3,112	36.9	84.3

EMERGENCY LUMEN OUTPUT		
LUMENS	WATTAGE	INITIAL OUTPUT
750	9.6	1000
1000	9.6	1000
1500	9.6	1000
2000	9.6	1000
2500	9.6	1000
3000	9.6	1000

NOTES

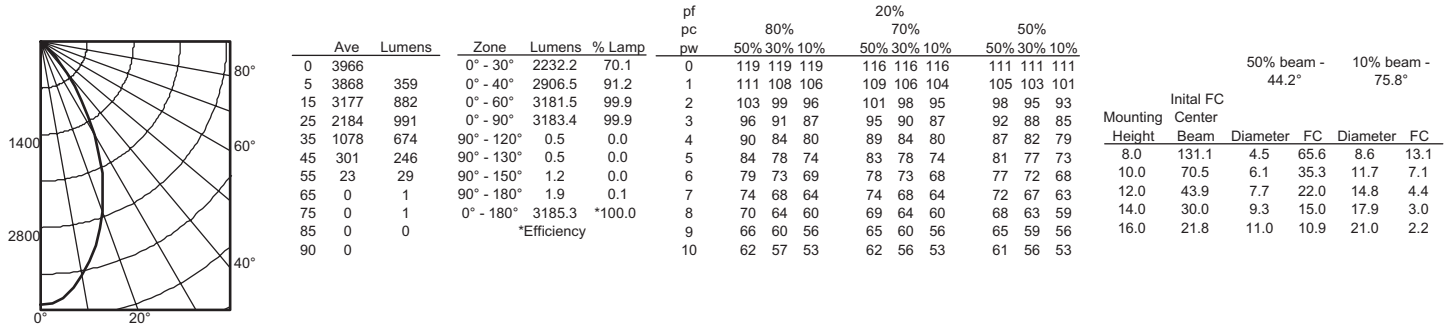
ORDERING NOTES	
1. Not available with finishes.	8. Not available with black reflector.
2. Not available with EL or ELR options.	9. For dimensional changes, refer to <a href="#">TECH-140</a> . Access above ceiling required. Not available with 347V.
3. Refer to <a href="#">TECH-240</a> for compatible dimmers.	10. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
4. Not available with nLight® and XPoint options.	11. Available only with EL/ELR. Not available with CP. PSSD2 included. Refer to <a href="#">PSSD2</a> .
5. 120V only.	
6. Specify 120V or 277V.	
7. Not available with white reflector.	



Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	ILLUMINANCE: Single Luminaire 30" Above Floor
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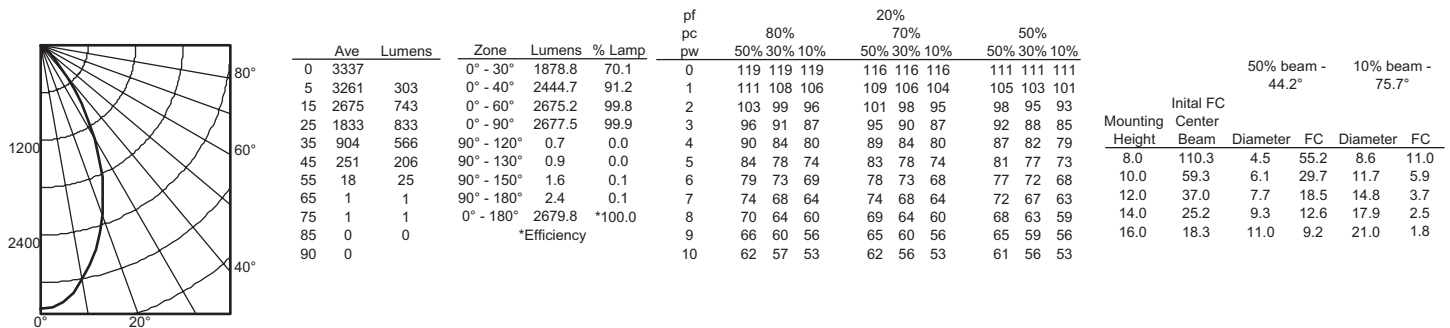
**EVO SQ 35/30 4AR LSS**

INPUT WATTS: 36.9, DELIVERED LUMENS: 3185, LM/W=86.3 , 0.82 S/MH, TEST NO. LTL27797



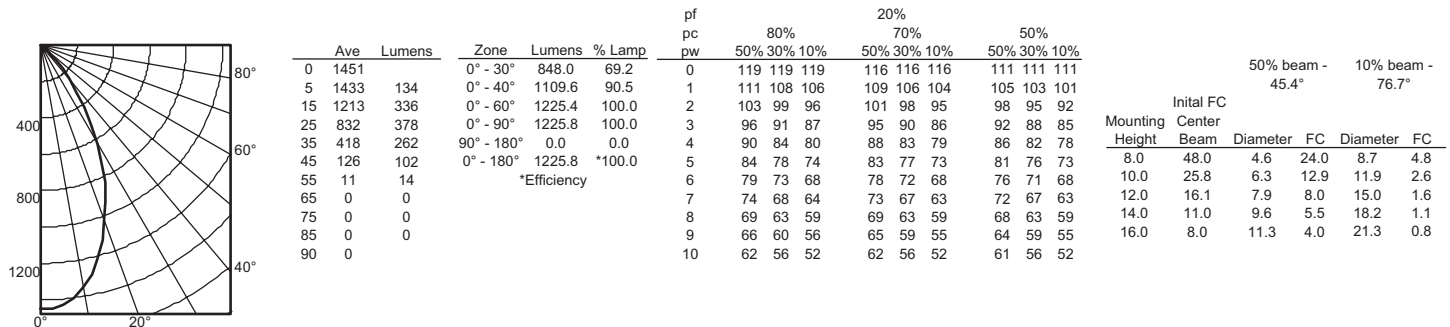
**EVO SQ 35/25 4AR LSS**

INPUT WATTS: 28.9, DELIVERED LUMENS: 2680, LM/W=92.7, 0.83 S/MH, TEST NO. LTL27796



**EVO SQ 35/10 4AR LSS**

INPUT WATTS: 12.9, DELIVERED LUMENS: 1226, LM/W=95, 0.86 S/MH, TEST NO. LTL27793



**LUMEN OUTPUT MULTIPLIER - CRI**

CRI	FACTOR
80 CRI	1
90 CRI	0.79

**LUMEN OUTPUT MULTIPLIER - CCT**

CRI	FACTOR
4000 K	1.035
3500 K	1
3000 K	0.973
2700 K	0.938

**LUMEN OUTPUT MULTIPLIER - TRIM FINISH**

FINISH	CLEAR (AR)	PEWTER (PR)	WHEAT (WTR)	GOLD (GR)	WHITE (WR/WRMF)	BLACK (BR)
Specular (LS)	1.00	0.88	0.83	0.95	N/A	N/A
Semi-specular (LSS)	0.95	0.84	0.79	0.90	N/A	N/A
Matte-diffuse (LD)	0.85	0.73	0.69	0.80	N/A	N/A
Paint	N/A	N/A	N/A	N/A	0.87	0.73

**PHOTOMETRY NOTES**

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 85 typical.

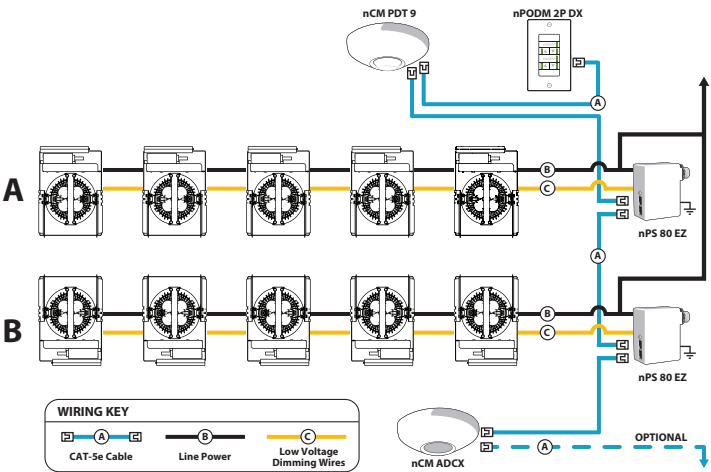
**Choose Wall Controls.**  
**nLIGHT** offers multiple styles of wall controls – each with varying features and user experience.



**Push-Button WallPod**  
Traditional tactile buttons and LED user feedback



**Graphic WallPod**  
Full color touch screen provides a sophisticated



**EXAMPLE**  
Group Fixture Control\*  
\*Application diagram applies for fixtures with eldoLED drivers only.

- nPS 80 EZ** Dimming/Control Pack (qty 2 required)
- nPODM 2P DX** Dual On/Off/Dim Push-Button WallPod
- nCM ADCX** Daylight Sensor with Automatic Dimming Control
- nCM PDT 9** Dual Technology Occupancy Sensor

**Description:** This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

nLight® Control Accessories: <i>Order as separate catalog number. Visit <a href="http://www.sensorswitch.com/nLight">www.sensorswitch.com/nLight</a> for complete listing of nLight controls.</i>			
<b>WallPod stations</b>	<b>Model number</b>	<b>Occupancy sensors</b>	<b>Model number</b>
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX [color]	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
<b>Photocell controls</b>	<b>Model number</b>	Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	<b>Cat-5 cables (plenum rated)</b>	<b>Model number</b>
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1